

NEWS RELEASE



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Technical information: (202) 691-5606 • mfpweb@bls.gov • www.bls.gov/mfp

Media contact: (202) 691-5902 • PressOffice@bls.gov

(Note: Multifactor productivity data for the private business and private nonfarm business sectors are incorrect for 2012. Measures for capital services were incorrectly calculated, affecting measures of multifactor productivity, output per unit of capital services, combined inputs, capital services per hour, and the contribution of capital intensity. Only data for 2012 are affected--measures for all other years are correct. A corrected news release will be published as soon as possible.)

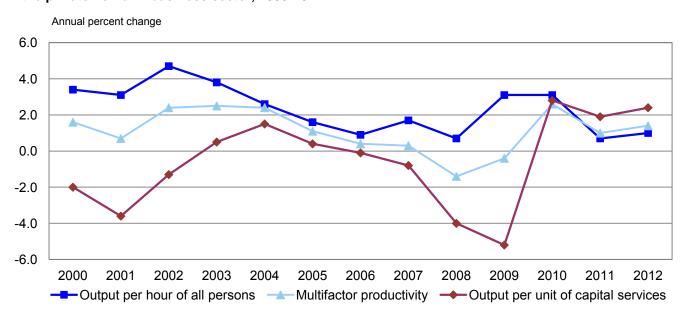
PRELIMINARY MULTIFACTOR PRODUCTIVITY TRENDS - 2012

Private nonfarm business sector multifactor productivity increased at a 1.4 percent annual rate in 2012, the U.S. Bureau of Labor Statistics reported today. (See chart 1, table A.) The multifactor productivity gain in 2012 reflected a 2.9 percent increase in output and a 1.5 percent increase in the combined inputs of capital and labor. Capital services grew by 0.5 percent and labor input – which is the combined effect of hours worked and labor composition – grew by 2.1 percent. Capital services per hour of all persons decreased at a rate of 1.3 percent in 2012 after falling 1.2 percent in 2011. The decreases in 2011 and 2012 are the only two years of decline in the measure which began in 1987. (See table 1.)

Multifactor productivity measures the change in output per unit of combined capital and labor input. It is designed to measure the joint influences of technological change, efficiency improvements, returns to scale, reallocation of resources, and other factors on economic growth, allowing for the effects of capital and labor. Multifactor productivity, therefore, differs from labor productivity (output per hour worked) measures that are published quarterly by BLS. Multifactor productivity includes information on capital services, hours worked, and shifts in the composition of labor. Estimates of capital services and labor composition are not included in the quarterly labor productivity measures. Additionally, much of the source data needed to construct multifactor productivity measures are not available quarterly.

Private business sector multifactor productivity also grew by 1.4 percent in 2012. A 2.8 percent increase in output and a 1.4 percent increase in the combined inputs of capital and labor contributed to the multifactor productivity gain in 2012. (See table 2.)

Chart 1. Output per hour of all persons, multifactor productivity, and output per unit of capital services in the private nonfarm business sector, 2000-2012



Historical trends in the private nonfarm business sector

1.0

0.5

0.0

0.3

8.0

1987-2012

Multifactor productivity in the private nonfarm business sector grew 0.9 percent annually from 1987 to 2012. (See table A.) For the 2007-2012 period, multifactor productivity grew 0.6 percent as combined inputs decreased 0.1 percent and output increased 0.5 percent. The small decline in combined inputs reflected a decrease in labor input of 0.7 percent combined with a 1.0 percent increase in capital services. In 2012, the 1.5 percent increase in combined inputs was a result of 2.1 percent growth in labor input combined with a 0.5 percent increase in capital services. This was the third straight year where labor input grew faster than capital services. (See table 1.)

Annual labor productivity growth can be viewed as the sum of three components: multifactor productivity growth, the contribution of capital intensity, and the contribution of shifts in labor composition. Output per hour shifted sharply upwards after the 1990-1995 period reflecting increases in contribution of capital intensity and multifactor productivity.

For the 2007-2012 period, the contribution of capital intensity and the contribution of labor composition amounted to 0.7 percent and 0.3 percent, respectively. Additionally, the growth in multifactor productivity of 0.6 percent contributed to an overall growth of output per hour of 1.7 percent. This composition of labor productivity growth more closely resembles the 1990-1995 period, prior to the upward shift in multifactor productivity and capital intensity. (See chart 2, table B.)

In 2012, the contribution of capital intensity in the private nonfarm business sector declined 0.5 percent. Combined with a modest 0.1 percent increase in the contribution of labor composition and a 1.4 percent increase in multifactor productivity, output per hour of all persons increased at a 1.0 percent annual rate. Labor productivity growth was much smaller than the average increase of 2.1 percent over the duration of the series, from 1987 to 2012. (See table B.)

The methodology for measuring preliminary multifactor productivity for 2012 is a simplified version of the methodology that BLS uses when more detailed data are available. Measures will be revised in early 2014.

2.5
2.0
1.5
0.9
0.5
0.5
0.6

1.2

1995-2000

□ Contribution of labor composition ■ Multifactor productivity

0.5

0.6

1990-1995

0.4

0.6

1987-1990

■ Contribution of capital intensity

0.2

1.0

2000-2007

0.3

0.7

2007-2012

Chart 2. Percentage point contributions to growth in output per hour in the private nonfarm business sector, 1987-2012

Note: Multifactor productivity plus the contributions of capital intensity and labor composition may not sum to output per hour due to independent rounding.

Table A. Compound annual growth rates for productivity, output, and inputs in the private nonfarm business and private business sectors for selected periods, 1987-2012

In percent

in percent							
	1987- 2012	1987- 1990	1990- 1995	1995- 2000	2000- 2007	2007- 2012	2011- 2012
Private nonfarm business ¹	2012	1990	1995	2000	2007	2012	2012
Productivity							
Multifactor Productivity ²	0.9	0.5	0.5	1.3	1.4	0.6	1.4
Output per hour of all persons	2.1	1.4	1.6	2.7	2.6	1.7	1.0
Output per unit of capital services	-0.6	-0.4	-0.4	-1.0	-0.5	-0.5	2.4
Output	2.8	3.2	2.9	5.0	2.7	0.5	2.9
Inputs							
Combined inputs ³	1.8	2.7	2.4	3.6	1.3	-0.1	1.5
Labor Input⁴	1.1	2.3	2.0	2.5	0.4	-0.7	2.1
Hours	0.7	1.7	1.3	2.2	0.1	-1.2	1.9
Labor composition ⁵	0.5	0.6	0.7	0.3	0.3	0.5	0.1
Capital services	3.4	3.6	3.3	6.0	3.2	1.0	0.5
Analytic ratio							
Capital services per hour of all							
persons	2.7	1.8	1.9	3.8	3.1	2.2	-1.3
Private business ¹							
Productivity							
Multifactor Productivity ²	1.0	0.6	0.4	1.5	1.4	0.6	1.4
Output per hour of all persons	2.1	1.6	1.5	2.9	2.7	1.7	0.9
Output per unit of capital services	-0.5	-0.3	-0.3	-0.8	-0.5	-0.4	2.4
Output	2.8	3.2	2.8	5.0	2.7	0.5	2.8
Inputs							
Combined inputs ³	1.8	2.6	2.4	3.4	1.2	-0.1	1.4
Labor Input ⁴	1.1	2.1	2.0	2.4	0.3	-0.7	2.0
Hours	0.6	1.6	1.3	2.0	0.0	-1.1	1.9
Labor composition ⁵	0.5	0.6	0.7	0.3	0.3	0.5	0.1
Capital services	3.3	3.5	3.1	5.8	3.1	0.9	0.4
Analytic ratio							
Capital services per hour of all							
persons	2.6	1.9	1.8	3.7	3.1	2.1	-1.5

¹ Excludes government enterprises.

 $[\]ensuremath{\mathsf{2}}$ Output per combined units of labor input and capital services.

³ The growth rate of each input is weighted by its share of current dollar costs.

⁴ Hours at work by age, education, and gender group are weighted by each group's share of the total wage bill.

⁵ Ratio of labor input to hours.

Table B. Compound annual growth rates in output per hour of all persons and the contribution of capital intensity, labor composition, and multifactor productivity in the private nonfarm business and private business sectors for selected periods, 1987-2012

In percent

	1987- 2012	1987- 1990	1990- 1995	1995- 2000	2000- 2007	2007- 2012	2011- 2012
Private nonfarm business ¹							
Output per hour of all persons	2.1	1.4	1.6	2.7	2.6	1.7	1.0
Contribution of capital intensity ²	0.8	0.6	0.6	1.2	1.0	0.7	-0.5
Contribution of labor composition ³	0.3	0.4	0.5	0.2	0.2	0.3	0.1
Multifactor productivity ⁴	0.9	0.5	0.5	1.3	1.4	0.6	1.4
Private business ¹							
Output per hour of all persons	2.1	1.6	1.5	2.9	2.7	1.7	0.9
Contribution of capital intensity ²	0.8	0.6	0.6	1.2	1.0	0.7	-0.5
Contribution of labor composition ³	0.3	0.4	0.5	0.2	0.2	0.3	0.1
Multifactor productivity⁴	1.0	0.6	0.4	1.5	1.4	0.6	1.4

¹ Excludes government enterprises.

Note: Multifactor productivity plus the contributions of capital intensity and labor composition may not sum to output per hour due to independent rounding.

² Capital services per hour multiplied by capital's share of current dollar costs.

³ Labor composition multiplied by labor's share of current dollar costs.

⁴ Output per combined units of labor input and capital services.

Technical Notes

The simplified methodology for preparing preliminary estimates of MFP is outlined in the June 2005 Monthly Labor Review article, "Preliminary estimates of multifactor productivity growth" located at http://www.bls.gov/opub/mlr/2005/06/art3full.pdf. This methodology is applied to both the private nonfarm business and private business sectors and measures are calculated only for the most recent year. Data for all previous years are identical to the April 9, 2013 "Multifactor Productivity Trends" news release (USDL-13-0626).

Capital Services

Capital services are the services derived from the stock of physical assets and software. Capital services measures constructed for the preliminary MFP measures are based on less detail only for the most recent year. The preliminary measures consist of eight asset types as opposed to the 86 asset types for fixed business equipment and software, structures, inventories, and land included in estimates for all previous years. The assets included in the preliminary estimates are computers, software, communications and other information processing equipment, other fixed business equipment, structures, inventories, rental residences, and land. Investments, depreciation, and capital income are estimated for each of these eight aggregates. Capital services are calculated by a chained superlative Tornqvist index combining stocks of the eight asset categories, weighted by capital income shares.

Labor Input

Labor input in private business and private nonfarm business is obtained by chained superlative Tornqvist aggregation of the hours at work by all persons, classified by age, education, and gender with weights determined by each group's share of the total wage bill. The preliminary estimates of 2012 hours worked for the private nonfarm business and private business sectors are extrapolated from the hours worked reported in the nonfarm business and business sectors, respectively, in the February 7, 2013 "Productivity and Costs" news release (USDL-13-0192).

The labor composition index estimates the effect of shifts in the age, education, and gender composition of the work force on the efficiency of hours worked. The preliminary MFP labor composition measure estimates the number of hours worked by each type of worker based on Current Population Survey (CPS) data. The estimate of the 2012 labor composition index assumes relative wages across groups remain constant between 2011 and 2012.

Additional information concerning data sources and methods of measuring labor composition can be found in Cindy Zoghi, 2007, "Measuring Labor Composition: A Comparison of Alternate Methodologies" http://www.bls.gov/bls/fesacp1121407.pdf and in "Changes in the Composition of Labor for BLS Multifactor Productivity Measures" http://www.bls.gov/mfp/mprlabor.pdf.

Combined Inputs

Labor input and capital services are combined using chained superlative Tornqvist aggregation, applying weights that represent each component's share of total costs. The chained superlative Tornqvist index uses changing weights; the share in each year is averaged with the preceding year's share. Total costs are defined as the value of output less a portion of taxes on production and imports. Most taxes on production and imports, such as excise taxes, are excluded from costs; however, property and motor vehicle taxes remain in total costs.

Capital Intensity

Capital intensity is the ratio of capital services to hours worked in the production process. The higher the capital to hours ratio, the more capital intensive the production process is.

In a production process, profit maximizing/cost-minimizing firms adjust the factor proportions of capital and labor if the price of one factor is less than the other factor; there would be a tendency for the firms to substitute the less expensive factor for the more expensive one. In the short run, changes in hours worked are more variable than changes in capital services. Changes in hours worked in business cycles can result in volatility of the capital intensity ratio over short periods of time. In the long run an increase in wages relative to the price of capital will induce the firm to substitute capital for labor, resulting in an increase in capital intensity.

Output

Private business sector output is a chain-type, current-weighted index constructed after excluding from gross domestic product (GDP) the following outputs: general government, nonprofit institutions, private households (including owner-occupied housing), and government enterprises. This release presents data for the private business and private nonfarm business sectors. The private business sector accounted for approximately 74 percent of gross domestic product in 2011. Additionally, the private nonfarm business sector excludes farms from the private business sector, but includes agricultural services. Multifactor measures exclude government enterprises, while the BLS quarterly Productivity and Cost series include them. The output measures are based on the National Income and Product Accounts (NIPA) data released by the Bureau of Economic Analysis (BEA) on January 30, 2013 but do not reflect the revised data released by BEA on February 28, 2013. The preliminary estimates of 2012 output for the private nonfarm business and private business sectors are extrapolated from the output reported in the nonfarm business and business sectors, respectively, in the February 7, 2013 "Productivity and Costs" news release (USDL-13-0192).

Multifactor Productivity

Multifactor productivity measures describe the relationship between output in real terms and the inputs involved in its production. They do not measure the specific contributions of labor or capital, or any other factor of production. Rather, multifactor productivity is designed to measure the joint influences of technological change, efficiency improvements, returns to scale, reallocation of resources, and other factors on economic growth, allowing for the effects of capital and labor.

The multifactor productivity indexes for private business and private nonfarm business are derived by dividing an output index by an index of capital services and labor input. The output indexes are computed as chained superlative indexes (Fisher Ideal indexes) of components of real output.

Table 1. Private nonfarm business sector: productivity and related measures for the 1987-2012¹ period

Annual percent change from previous year

Annual pe	rcent change	from previous	year					
		Productiv	ity					
Year	Output per hour of all persons	Output per unit of capital services	Multifactor Productivity ²	Output ³	Labor Input ⁴	Capital Services ⁵	Combined units of labor input and capital services	Capital services per hour of all persons
1988	1.7	0.9	1.0	4.6	3.5	3.6	3.5	0.7
1989	0.8	-0.4	0.0	3.5	3.3	3.9	3.5	1.1
1990	1.9	-1.7	0.4	1.4	0.1	3.2	1.1	3.7
1991	1.7	-3.6	-1.0	-0.9	-1.1	2.8	0.1	5.5
1992	4.0	1.5	2.3	3.8	1.0	2.3	1.4	2.5
1993	0.6	0.4	0.3	3.6	3.3	3.2	3.3	0.3
1994	1.1	1.1	0.7	4.7	4.1	3.6	3.9	0.0
1995	0.5	-1.1	0.0	3.3	2.7	4.4	3.2	1.6
1996	2.6	-0.3	1.4	4.4	2.2	4.8	3.0	2.9
1997	1.5	-0.4	0.6	5.1	4.0	5.5	4.5	1.9
1998	2.9	-1.2	1.5	5.2	2.4	6.4	3.6	4.2
1999	3.3	-1.2	1.7	5.6	2.6	6.9	3.9	4.5
2000	3.4	-2.0	1.6	4.5	1.2	6.5	2.8	5.5
2001	3.1	-3.6	0.7	1.0	-1.6	4.8	0.3	7.0
2002	4.7	-1.3	2.4	1.9	-2.0	3.3	-0.4	6.0
2003	3.8	0.5	2.5	3.1	-0.4	2.7	0.6	3.3
2004	2.6	1.5	2.4	4.0	1.2	2.5	1.6	1.1
2005	1.6	0.4	1.1	3.4	2.0	3.0	2.3	1.2
2006	0.9	-0.1	0.4	3.2	2.5	3.3	2.8	1.0
2007	1.7	-0.8	0.3	2.2	1.2	3.0	1.8	2.5
2008	0.7	-4.0	-1.4	-1.5	-1.5	2.7	-0.1	4.9
2009	3.1	-5.2	-0.4	-4.4	-6.5	0.8	-4.0	8.8
2010	3.1	2.8	2.6	3.1	0.6	0.3	0.5	0.3
2011	0.7	1.9	1.0	2.7	2.2	0.8	1.7	-1.2
2012	1.0	2.4	1.4	2.9	2.1	0.5	1.5	-1.3

See footnotes following table 4.

Table 2. Private business sector: productivity and related measures for the 1987-2012 period

Annual percent change from previous year

Ailliuai pe	rcent change	nom previous	yeai		I				
		Productiv	ity		Inputs				
Year	Output per hour of all persons	Output per unit of capital services	Multifactor Productivity ²	Output ³	Labor Input ⁴	Capital Services ⁵	Combined units of labor input and capital services	Capital services per hour of all persons	
1988	1.5	0.5	0.8	4.3	3.4	3.8	3.5	1.0	
1989	1.0	-0.1	0.3	3.7	3.2	3.9	3.4	1.2	
1990	2.2	-1.4	0.6	1.5	-0.1	3.0	0.9	3.6	
1991	1.6	-3.4	-1.0	-0.8	-1.0	2.7	0.2	5.2	
1992	4.2	1.8	2.6	4.0	1.0	2.1	1.4	2.3	
1993	0.6	0.2	0.2	3.3	3.1	3.1	3.1	0.4	
1994	0.9	1.4	0.7	5.0	4.5	3.5	4.2	-0.4	
1995	0.1	-1.3	-0.3	2.9	2.7	4.3	3.2	1.4	
1996	2.9	0.0	1.7	4.6	2.0	4.6	2.8	2.9	
1997	1.8	-0.1	0.8	5.2	3.9	5.3	4.4	1.8	
1998	3.0	-1.1	1.5	5.0	2.3	6.2	3.5	4.1	
1999	3.5	-1.0	1.8	5.6	2.4	6.7	3.7	4.5	
2000	3.5	-1.7	1.7	4.6	1.2	6.3	2.8	5.3	
2001	3.2	-3.5	0.8	0.9	-1.8	4.6	0.1	7.0	
2002	4.6	-1.2	2.4	2.0	-1.9	3.2	-0.4	5.8	
2003	3.9	0.6	2.7	3.2	-0.4	2.6	0.5	3.3	
2004	2.8	1.4	2.4	4.1	1.1	2.6	1.6	1.3	
2005	1.7	0.3	1.0	3.5	2.0	3.2	2.4	1.4	
2006	1.0	-0.1	0.4	3.1	2.4	3.2	2.7	1.0	
2007	1.6	-0.7	0.3	2.1	1.2	2.8	1.7	2.3	
2008	0.7	-3.7	-1.2	-1.3	-1.4	2.4	-0.1	4.6	
2009	3.2	-4.8	-0.1	-4.2	-6.5	0.6	-4.1	8.5	
2010	3.0	2.7	2.5	3.0	0.7	0.3	0.5	0.3	
2011	0.4	1.4	0.7	2.4	2.1	1.0	1.7	-1.0	
2012	0.9	2.4	1.4	2.8	2.0	0.4	1.4	-1.5	

See footnotes following table 4.

Table 3. Private nonfarm business sector: indexes of productivity and related measures, 1987-2012¹

Indexes 2005=100

Indexes 2	005=100							
		Productivi	ty					
Year	Output per hour of all persons	Output per unit of capital services	Multifactor Productivity ²	Output ³	Labor Input ⁴	Capital Services ⁵	Combined units of labor input and capital services	Capital services per hour of all persons
1987	66.3	111.1	82.3	54.2	75.5	48.8	65.9	59.6
1988	67.4	112.2	83.1	56.7	78.2	50.6	68.3	60.0
1989	67.9	111.8	83.1	58.7	80.8	52.6	70.7	60.7
1990	69.2	109.9	83.5	59.6	80.8	54.2	71.4	62.9
1991	70.3	105.9	82.7	59.1	79.9	55.8	71.5	66.4
1992	73.1	107.5	84.6	61.3	80.7	57.0	72.5	68.0
1993	73.6	107.9	84.8	63.5	83.4	58.9	74.9	68.2
1994	74.4	109.1	85.5	66.5	86.9	61.0	77.8	68.2
1995	74.7	107.9	85.5	68.7	89.2	63.7	80.3	69.3
1996	76.7	107.5	86.7	71.7	91.1	66.7	82.8	71.3
1997	77.8	107.1	87.2	75.4	94.8	70.4	86.5	72.6
1998	80.1	105.9	88.4	79.3	97.1	74.9	89.7	75.7
1999	82.7	104.6	89.9	83.8	99.6	80.1	93.2	79.1
2000	85.6	102.6	91.4	87.5	100.8	85.3	95.8	83.4
2001	88.3	98.9	92.0	88.4	99.2	89.3	96.0	89.2
2002	92.4	97.6	94.2	90.1	97.2	92.3	95.6	94.6
2003	95.8	98.1	96.6	92.9	96.9	94.7	96.2	97.7
2004	98.4	99.6	98.9	96.7	98.1	97.1	97.7	98.8
2005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2006	100.9	99.9	100.4	103.2	102.5	103.3	102.8	101.0
2007	102.6	99.1	100.7	105.4	103.8	106.4	104.7	103.6
2008	103.3	95.1	99.3	103.9	102.2	109.3	104.6	108.6
2009	106.5	90.1	98.9	99.3	95.6	110.2	100.4	118.2
2010	109.8	92.7	101.5	102.3	96.2	110.4	100.9	118.5
2011	110.6	94.4	102.5	105.1	98.3	111.4	102.6	117.1
2012	111.6	96.6	103.9	108.2	100.3	111.9	104.1	115.5

See footnotes following table 4.

Table 4. Private business sector: indexes of productivity and related measures, 1987-2012¹

Indexes 2005=100

Indexes 2	005=100 I			l				
		Productivi	ty					
Year	Output per hour of all persons	Output per unit of capital services	Multifactor Productivity ²	Output ³	Labor Input ⁴	Capital Services ⁵	Combined units of labor input and capital services ⁶	Capital services per hour of all persons
1987	65.4	109.0	81.3	54.2	76.4	49.7	66.6	60.0
1988	66.4	109.6	82.0	56.5	78.9	51.6	69.0	60.6
1989	67.1	109.4	82.2	58.6	81.5	53.6	71.3	61.3
1990	68.6	107.9	82.7	59.5	81.4	55.2	72.0	63.6
1991	69.7	104.2	81.9	59.1	80.5	56.7	72.1	66.9
1992	72.6	106.1	84.0	61.4	81.4	57.9	73.1	68.4
1993	73.1	106.4	84.2	63.4	83.9	59.7	75.3	68.7
1994	73.8	107.8	84.8	66.6	87.7	61.8	78.5	68.4
1995	73.8	106.4	84.6	68.5	90.0	64.4	81.0	69.4
1996	76.0	106.4	86.0	71.7	91.8	67.3	83.3	71.4
1997	77.3	106.4	86.7	75.4	95.4	70.9	86.9	72.7
1998	79.6	105.2	88.0	79.2	97.6	75.3	90.0	75.7
1999	82.4	104.1	89.6	83.6	99.9	80.3	93.3	79.1
2000	85.3	102.4	91.2	87.4	101.1	85.4	95.9	83.3
2001	88.0	98.8	91.9	88.3	99.3	89.3	96.0	89.1
2002	92.1	97.7	94.1	90.0	97.4	92.1	95.7	94.3
2003	95.7	98.3	96.6	92.9	97.0	94.5	96.1	97.4
2004	98.4	99.7	99.0	96.7	98.1	96.9	97.7	98.6
2005	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2006	101.0	99.9	100.4	103.1	102.4	103.2	102.7	101.0
2007	102.6	99.2	100.8	105.2	103.6	106.1	104.4	103.4
2008	103.3	95.6	99.5	103.8	102.1	108.7	104.3	108.1
2009	106.6	91.0	99.4	99.5	95.5	109.4	100.1	117.3
2010	109.9	93.4	101.8	102.5	96.1	109.7	100.6	117.6
2011	110.3	94.8	102.5	105.0	98.2	110.8	102.4	116.4
2012	111.3	97.1	104.0	107.9	100.2	111.2	103.8	114.7

See footnotes following table 4.

Footnotes, Tables 1-4

Source: The Bureau of Labor Statistics (BLS) develops productivity measures using output and compensation data published by the Bureau of Economic Analysis (BEA), hours data published by other BLS programs, and capital data supplied by BEA and U.S. Department of Agriculture. Also see Technical Notes in this release.

- (1) The private business sector covers gross domestic product with the exception of the output of general government, government enterprises, non-profit institutions, the rental value of owner-occupied real estate, and the output of paid employees of private households. The private nonfarm business sector further excludes farms but includes agricultural services.
- (2) Output per combined units of labor input and capital services.
- (3) Gross domestic product originating in the sector, chained superlative index.
- (4) Index of hours at work of all persons including employees, proprietors, and unpaid family workers, classified by age, education, and gender. This chained superlative index is computed by combining changes in the hours of each age, education, and gender group weighted by each group's share of the total wage bill.
- (5) A measure of the flow of capital services used in the sector. Capital services measure the services derived from the stock of physical assets and software. The assets included are fixed business equipment, structures, inventories, and land.
- (6) The growth rates of labor input and capital services are combined by weighting with their respective shares of current dollar costs, and aggregating into a chained superlative index.